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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,989	01/15/2004	Ah Lek Hu	NSC1P193D1/P04811D1	8314
22434 75	90 05/04/2006		EXAMINER	
BEYER WEA	VER & THOMAS LLI	ARBES,	ARBES, CARL J	
P.O. BOX 7025	0			
OAKLAND, CA 94612-0250			ART UNIT	PAPER NUMBER
			3729	
		DATE MAILED: 05/04/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		Application No.		<u>ن</u>			
		10/759,989	HU ET AL.				
		Examiner	Art Unit				
		C. J. Arbes	3729				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[🛛	Responsive to communication(s) filed on 24 M	<u>arch 2006</u> .					
,	This action is FINAL . 2b) ☐ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposit	ion of Claims						
4) Claim(s) 11-18 and 20-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 11-18 and 20-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority I	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice 3) Infor	tat(s) Due of References Cited (PTO-892) Due of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) The No(s)/Mail Date herein.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate	O-152)			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-18 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japan Pat No 01-274440, by Keiki (of record); hereinafter '440.The '440 teaches a method of wire bonding wherein a vacuum is applied onto a porous surface of a part which supports a lead frame. This is done to suppress warping while a wire bonding step is used to bond chips to the lead frame. If the '440 does not anticipate Applicants' claimed invention it is held to have made the claimed invention obvious. That is the base tape recited in Claim 11 of the instant application is deemed to be an equivalent of the element 10 taught by the '440. As further applied to claims 12, 16 and 17 it is held that these numerical vales would be within the ordinary skill of a POSITA at the time the invention was filed. Alternatively these same limitations are held to be mer design choice inasmuch as Applicant solve no specific problem not provide any specific purpose therefore.

Claims 20 and 21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. To the extent that Applicants' originally filed specification says nothing about "removing the lead frame base tape from the first

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surface of he porous block and processing a second lead frame that is a different size and shape than the lead frame comprising: placing a first surface of a second lead frame base tape on the first surface etc. Claim 22 is a entirely held to be new matter

and therefore is properly rejected under 35 U.S.C. 112, 1st paragraph.

Applicants' Remarks/Arguments have been carefully read and analyzed. The '440 teaching indeed provides a *prima facie* case of obviousness for the rejected claims inasmuch as the POSITA would have little or no difficulty construing the element designated as 10 as the "tape" which is recited by Applicants; would have little or no difficulty with heating the porous block directly rather locally heating the element 10 in the '440 and would have little or no difficulty using a clamping means as opposed to the apparent screw or other means depicted in e.g. Figure 5 of the '440.It is apparent that the Applicants do not place a large or high amount of competence in the fictional POSITA who would be reasonably knowledgeable in this art and therefore would know how to modify this teaching, without undue skill and achieve the claimed invention.

This being said the claimed invention as drawn in claims is held to be FINAL.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. J. Arbes whose telephone number is 571-272-4563. The examiner can normally be reached on M, T, R and F from 8 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Vo, can be reached on 571-272-4563. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. J. Arbes
Primary Examiner
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